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- 71 Applicant: SCRIPPS CLINIC AND RESEARCH FOUNDATION
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- (2) Representative: Harrison, David Christopher et al MEWBURN ELLIS & CO 2/3 Cursitor Street London EC4A 1BQ(GB)
- Polypeptides stabilized by covalent hydrogen bond replacements.
- © Polypeptides are restricted to particular conformations in solution by replacing one or more hydrogen bonds with covalent hydrogen bond mimics of class 1 or class 2:

The polypeptides thus stabilized are capable of greater biological activity.

## **EUROPEAN SEARCH REPORT**

Application Number

EP 89 30 3469

DOCUMENTS CONSIDERED TO BE RELEVANT					
ategory	Citation of document with of relevi	indication, where appropriate, ant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CI.5)	
х	UCLA SYMPOSIA ON MOLECULAR AND CELLULAR BIOL- OGY, new series, vol. 69, PROTEIN STRUCTURE, FOLD- ING, AND DESIGN, 1987, pages 453-465, Alan R. Liss, Inc., New York, US; T. ARRHENIUS et al.: "The chemical synthe- sis of structured peptides using covalent hydrogen-bond nimics"  * Complete article *		1-5	C 07 K 7/00 C 07 K 7/02 C 07 K 3/08 C 07 K 5/08	
X	VACCINE, vol. 6, April 1988, & Co. (Publishers) Ltd; A.C. "Conformational restriction of covalent replacements for the "Complete article"	SATTERTHWAIT et al.:  of peptidyl immunogens with	1-5		
Α	EP-A-0 127 234 (ENI) * Completely *	· <b></b>	1		
Α	EP-A-0 185 320 (ENIRICER	RCHE S.p.A.)	1		
A	EP-A-0 257 742 (ADMIN. Tompletely *	TULANE ED. F.)	1-5	TECHNICAL FIELDS SEARCHED (Int. CI.5)  C 07 K	
	The present search report has				
	Place of search	Date of completion of search		Examiner RAJIC M.	
ĺ	The Hague	24 May 91		ment, but published on, or after	

## CATEGORY OF CITED DOCUMENTS

- X: particularly relevant if taken alone
  Y: particularly relevant if combined with another document of the same catagory
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  T: theory or principle underlying the invention
- earlier patent document, but public the filing date
   D: document cited in the application
   document cited for other reasons

- &: member of the same patent family, corresponding document